

SEQUENCE LISTING

<110> ONCOMAB GmbH

<120> Neoplasm specific antibodies and uses thereof

<130> 31508PWO

<140> PCT/IB03/03487

<141> 2003-07-02

<150> DE 102 29 906.4

<151> 2002-07-04

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<150> DE 102 30 516.1

<151> 2002-07-06

<160> 12

<170> PatentIn Ver. 2.1

<210> 1

<211> 318

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(318)

<223> PM-1 Light chain variable region sequence

<220>

<221> V_region

<222> (1)..(318)

<400> 1

tcc	tat	gtg	ctg	act	cag	cca	ccc	tcg	gtg	tca	gtg	tcc	cca	gga	caa	48
Ser	Tyr	Val	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln	
1				5				10				15				

acg	gcc	agg	atc	acc	tgc	tct	gga	gat	gca	ttg	cca	aaa	aaa	tat	cct	96
Thr	Ala	Arg	Ile	Thr	Cys	Ser	Gly	Asp	Ala	Leu	Pro	Lys	Lys	Tyr	Pro	
			20				25					30				

tat	tgg	tac	cag	cag	aag	tca	ggc	cag	gcc	cct	gtg	ctg	gtc	atc	tat	144
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Tyr Trp Tyr Gln Gln Lys Ser Gly Gln Ala Pro Val Leu Val Ile Tyr
 35 40 45

gag gac agc aaa cga ccc tcc ggg atc cct gag aga ttc tct ggc tcc 192
 Glu Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

agc tca ggg aca atg gcc acc ttg act atc agt ggg gcc cag gtg gag 240
 Ser Ser Gly Thr Met Ala Thr Leu Thr Ile Ser Gly Ala Gln Val Glu
 65 70 75 80

gat gaa gct gac tac tac tgt tac tca aca gac agc agt ggt aat atg 288
 Asp Glu Ala Asp Tyr Tyr Cys Tyr Ser Thr Asp Ser Ser Gly Asn Met
 85 90 95

tct tcg gaa ctg gga cca agc tca ccg tcc 318
 Ser Ser Glu Leu Gly Pro Ser Ser Pro Ser
 100 105

<210> 2
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 2
 Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15

Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Lys Tyr Pro
 20 25 30

Tyr Trp Tyr Gln Gln Lys Ser Gly Gln Ala Pro Val Leu Val Ile Tyr
 35 40 45

Glu Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60

Ser Ser Gly Thr Met Ala Thr Leu Thr Ile Ser Gly Ala Gln Val Glu
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Tyr Ser Thr Asp Ser Ser Gly Asn Met
 85 90 95

Ser Ser Glu Leu Gly Pro Ser Ser Pro Ser
 100 105

<210> 3
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(294)
 <223> PM-1 Heavy chain variable region sequence

<220>
 <221> V_region
 <222> (1)..(294)

<400> 3
 ggg tcc ctg aga ctc tcc tgt gca gcc tct gga ttc acc ttt agc agc 48
 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser
 1 5 10 15
 tat gcc atg agc tgg gtc cgc cag gct cca ggg aag ggg ctg gag tgg 96
 Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 20 25 30
 gtc tca gct att agt ggt agt ggt ggt agc aca tac tac gca gac tcc 144
 Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser
 35 40 45
 gtg aag ggc cgg ttc acc atc tcc aga gac aat tcc aag aac acg ctg 192
 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
 50 55 60
 tat ctg caa atg aac agc ctg aga gcc gag gac acg gcc gta tat tac 240
 Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 65 70 75 80
 tgt gcg aaa gat tca ttt cgt gaa gga ccc tgg ggc cag gga acc ctg 288
 Cys Ala Lys Asp Ser Phe Arg Glu Gly Pro Trp Gly Gln Gly Thr Leu
 85 90 95
 gtc acc 294
 Val Thr

<210> 4
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 4

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser
 1 5 10 15

Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 20 25 30

Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser
 35 40 45

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
 50 55 60

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 65 70 75 80

Cys Ala Lys Asp Ser Phe Arg Glu Gly Pro Trp Gly Gln Gly Thr Leu
 85 90 95

Val Thr

<210> 5

<211> 348

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(348)

<223> PM-2 Light chain variable region sequence

<220>

<221> V_region

<222> (1)..(348)

<400> 5

cag tct gcc ctg act cag cct gct tcc ctc tct gca tct cct gga gca 48
 Gln Ser Ala Leu Thr Gln Pro Ala Ser Leu Ser Ala Ser Pro Gly Ala
 1 5 10 15

tca gcc agt ctc acc tgc acc ttg cgc agt ggc atc aat gtt ggt acc 96
 Ser Ala Ser Leu Thr Cys Thr Leu Arg Ser Gly Ile Asn Val Gly Thr
 20 25 30

tac agg ata tac tgg tac cag cag aag cca ggg agt cct ccc cag tat 144
 Tyr Arg Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Gln Tyr
 35 40 45

ctc ctg agg tac aaa tca gac tca gat aag cag aag ggc tct gga gtc 192
 Leu Leu Arg Tyr Lys Ser Asp Ser Asp Lys Gln Lys Gly Ser Gly Val
 50 55 60

ccc agc cgc ttc tct gga tcc aaa gat gct tcg gcc aat gca ggg att 240
 Pro Ser Arg Phe Ser Gly Ser Lys Asp Ala Ser Ala Asn Ala Gly Ile
 65 70 75 80

tta ctc atc tct ggg ctc cag tct gag gat gag gct gac tat tac tgt 288
 Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
 85 90 95

atg att tgg cac agc agc gct tgg gtg ttc ggc gga ggg acc aag ctg 336
 Met Ile Trp His Ser Ser Ala Trp Val Phe Gly Gly Gly Thr Lys Leu
 100 105 110

acc gtc cta ggt 348
 Thr Val Leu Gly
 115

<210> 6

<211> 116

<212> PRT

<213> Homo sapiens

<400> 6

Gln Ser Ala Leu Thr Gln Pro Ala Ser Leu Ser Ala Ser Pro Gly Ala
 1 5 10 15

Ser Ala Ser Leu Thr Cys Thr Leu Arg Ser Gly Ile Asn Val Gly Thr
 20 25 30

Tyr Arg Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Gln Tyr
 35 40 45

Leu Leu Arg Tyr Lys Ser Asp Ser Asp Lys Gln Lys Gly Ser Gly Val
 50 55 60

Pro Ser Arg Phe Ser Gly Ser Lys Asp Ala Ser Ala Asn Ala Gly Ile
 65 70 75 80

Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
 85 90 95

Met Ile Trp His Ser Ser Ala Trp Val Phe Gly Gly Gly Thr Lys Leu
 100 105 110

Thr Val Leu Gly
 115

<210> 7
 <211> 321
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(321)
 <223> PM-2 Heavy chain variable region sequence

<220>
 <221> V_region
 <222> (1)..(321)

<400> 7
 ggg tcc ctg aga ctc tcc tgt gca gcc tct gga ttc acc ttt agc agc 48
 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser
 1 5 10 15

 tat gcc atg agc tgg gtc cgc cag gct cca ggg aag ggg ctg gag tgg 96
 Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 20 25 30

 gtc tca gct att agt ggt agt ggt ggt agt aca tac tac gca gac tcc 144
 Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser
 35 40 45

 gtg aag ggc cgg ttc acc atc tcc aga gac aat tcc aag aac acg ctg 192
 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
 50 55 60

 tat ctg caa atg aac agc ctg aga gcc gag gac acg gcc gta tat tac 240
 Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 65 70 75 80

 tgt gcg aaa ggt ggg gcc gaa ggc tgg tac gag tac tac tac tac tac 288
 Cys Ala Lys Gly Gly Ala Glu Gly Trp Tyr Glu Tyr Tyr Tyr Tyr Tyr
 85 90 95

ggt atg gac gtc tgg ggc caa ggg acc ctg gtc
 Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val
 100 105

321

<210> 8
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 8
 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser
 1 5 10 15
 Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 20 25 30
 Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser
 35 40 45
 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
 50 55 60
 Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 65 70 75 80
 Cys Ala Lys Gly Gly Ala Glu Gly Trp Tyr Glu Tyr Tyr Tyr Tyr Tyr
 85 90 95
 Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val
 100 105

<210> 9
 <211> 330
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(330)
 <223> CM-2 Light chain variable region sequence

<220>
 <221> V_region
 <222> (1)..(330)

<400> 9

cag tct gcc ctg act cag cct gcc tcc gtg tct ggg tct cct gga cag 48
 Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
 1 5 10 15

tcg atc acc atc tcc tgc act gga acc agc agt gac gtt ggt ggt tat 96
 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
 20 25 30

aac tat gtc tcc tgg tac caa cag cac cca ggc aaa gcc ccc aaa ctc 144
 Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
 35 40 45

atg att tat gat gtc agt aat cgg ccc tca ggg gtt tct aat cgc ttc 192
 Met Ile Tyr Asp Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe
 50 55 60

tct ggc tcc aag tct ggc aac acg gcc tcc ctg acc atc tct gga ctc 240
 Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
 65 70 75 80

cag gct gag gac gag gct gat tac tac tgc agc tca aaa aga agc agc 288
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Lys Arg Ser Ser
 85 90 95

aac act cta gta ttc ggc gga ggg acc aag ctg acc gtc cta 330
 Asn Thr Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 10

<211> 110

<212> PRT

<213> Homo sapiens

<400> 10

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
 1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
 20 25 30

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
 35 40 45

Met Ile Tyr Asp Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe
 50 55 60

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
 65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Lys Arg Ser Ser
 85 90 95

Asn Thr Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 11

<211> 327

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(327)

<223> CM-2 Heavy chain variable region sequence

<220>

<221> V_region

<222> (1)..(327)

<400> 11

aaa aag ccc ggg gag tct ctg agg atc tcc tgt aag ggc tct gga tac 48
 Lys Lys Pro Gly Glu Ser Leu Arg Ile Ser Cys Lys Gly Ser Gly Tyr
 1 5 10 15

agt ttt acc acc tac tgg atc ggc tgg gtg cgc cag atg ccc ggg aaa 96
 Ser Phe Thr Thr Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys
 20 25 30

ggc ctg gag tgg atg ggg atc atc tat cct ggt gac tct gat acc aga 144
 Gly Leu Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg
 35 40 45

tac agc ccg tcc ttc caa ggc cag gtc acc atc tca gcc gac acg tcc 192
 Tyr Ser Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Thr Ser
 50 55 60

atc agt acc gcc tac ctg cag tgg agc agc ctg aag gcc tcg gac acc 240
 Ile Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr
 65 70 75 80

gcc ata tat tac tgt gcg agg gag gtc tat act ggc cga aac tac tac 288
 Ala Ile Tyr Tyr Cys Ala Arg Glu Val Tyr Thr Gly Arg Asn Tyr Tyr

85 90 95 327
 tac tac ggt ctg gac gtc tgg ggc caa gga acc ctg gtc
 Tyr Tyr Gly Leu Asp Val Trp Gly Gln Gly Thr Leu Val
 100 105

<210> 12
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 12
 Lys Lys Pro Gly Glu Ser Leu Arg Ile Ser Cys Lys Gly Ser Gly Tyr
 1 5 10 15
 Ser Phe Thr Thr Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys
 20 25 30
 Gly Leu Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg
 35 40 45
 Tyr Ser Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Thr Ser
 50 55 60
 Ile Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr
 65 70 75 80
 Ala Ile Tyr Tyr Cys Ala Arg Glu Val Tyr Thr Gly Arg Asn Tyr Tyr
 85 90 95
 Tyr Tyr Gly Leu Asp Val Trp Gly Gln Gly Thr Leu Val
 100 105